

**SECTION 07100
DAMPPROOFING AND WATERPROOFING**

PART 1 – GENERAL

1.01 SECTION INCLUDES

- A. Clear non-toxic treatment for waterproofing, hardening and protecting both old and new concrete and masonry.
- B. Repairs and preparation for horizontal and vertical surfaces.

1.02 PRODUCT DESCRIPTION

- A. Primary component is a water-based sodium silicate treatment that contains no organic resins or compounds.
- B. Treatment shall conform to requirement of Air Quality Management District (AQMD) in force at time of performance.
- C. Specified product shall meet or exceed the following criteria:
 - 1. ASSHTO T 259, based on abraded specimens, 88% improvement over Linseed Oil used as a control
 - 2. AASHTO T 161, freeze/thaw test, 480 cycles: Passed
 - 3. ASTM C 672, freeze/thaw test, 50 cycles: Passed
 - 4. ASTM C 882, bond strength of epoxy: Passed
 - 5. ASTM C 501, abrasion resistance test, 38% improvement over specified 5,000 psi concrete used as a control
 - 6. Hydrostatic Test, pressure applied at a rate of 100 psi: Passed

1.03 QUALITY ASSURANCE

- A. The manufacturer shall supply written proof of at least 10 years successful experience in restoring, waterproofing and protecting interior and exterior surfaces.
- B. Manufacturer shall have been current business for a minimum of 10 years.
- C. EPA – Environmental Protection Agency: All components must be V.O.C. compliant to current regulations.
- D. Manufacturer shall provide a 5-year waterproofing warranty when applied in strict accordance with manufacturer's written instructions.

1.04 SUBMITTALS

- A. Applicator shall furnish for approval upon request, material data sheets, MSDS and all other supporting data required by the specifier and/or owner.
- B. The specified product shall be SINAK Sealer S-102 as manufactured by: SINAK Corporation 1949 W. Walnut Ave, San Diego, CA 92101, Phone: (800) 523-3147 Fax: (619) 295-0227.
- C. There is no known equal to SINAK Sealer S-102. Architect and/or owner prior to bid time must approve alternates in writing. Bids received that include alternate materials that have not been approved in such fashion will be rejected as non-responsive to the bid documents.

1.05 ENVIRONMENTAL REQUIREMENTS

- A. Application of the treatment shall meet with all current environmental laws as prescribed by governing agencies.
- B. Surfaces to be treated must be dry. If rain is anticipated within 12 hours of application, do not apply treatment. Temperature and humidity of installation environment shall be at anticipated service conditions.
- C. Provide adequate ventilation during application within an enclosed space.
- D. Disposal of containers and materials and all costs thereof shall be the responsibility of the applicator.

PART 2 – PRODUCTS

2.01 MATERIALS

- A. Treatment shall be a water-based clear liquid.

2.02 PREPARATION

- A. Cracks, joints, etc. shall be repaired with appropriate repair materials and will be in accordance with the manufacturer's written instructions.

PART 3 – EXECUTION

3.01 EXAMINATION AND PREPARATION

- A. Verify that surfaces are free of loose particles and that all paints, sealers, coatings etc. have been removed.

- B. Treatment shall not be applied to damp, dirty, frozen, non-absorptive, or glossy surfaces.
- C. Surfaces shall be cleaned and prepared in accordance with the manufacturers written installation/application instructions.

3.02 APPLICATION

- A. Treatment application shall be in accordance with the manufacturer's currently published specifications, and only by an applicator approved in writing by the manufacturer.

3.03 PROTECTION

- A. Owner shall be responsible for reasonable care and maintenance of the installed treatment upon completion. Contractor shall be responsible for protection of work area until owner's acceptance.

END OF SECTION